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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/613,413	07/03/2003	Matthew Sleeman	11000.1037c5	9443
75	90 06/07/2005		EXAM	INER
Gary M. Myles		Li, RUIXIANG		
SPECKMAN LAW GROUP Suite 100			ART UNIT	PAPER NUMBER
1501 Western Avenue			1646	
Seattle, WA 98101			DATE MAILED: 06/07/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Commons	10/613,413	SLEEMAN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Ruixiang Li	1646				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w. - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication: D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on	_•					
2a) ☐ This action is FINAL . 2b) ☑ This	action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
 4) Claim(s) 72-91 is/are pending in the application 4a) Of the above claim(s) is/are withdraw 5) Claim(s) 72-76 and 82-86 is/are allowed. 6) Claim(s) 77-81 and 87-91 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or 	vn from consideration.					
Application Papers						
9) The specification is objected to by the Examiner	r.					
10) $oxtimes$ The drawing(s) filed on <u>03 July 2003</u> is/are: a) $oxtimes$ accepted or b) $oxtimes$ objected to by the Examiner.						
Applicant may not request that any objection to the o	drawing(s) be held in abeyance. See	37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Example 11.	•					
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list of the certified copies of the attached detailed Office action for a list of the certified copies of the priority documents application from the International Bureau * See the attached detailed Office action for a list of the certified copies of the priority documents application from the International Bureau * See the attached detailed Office action for a list of the certified copies of the priority documents application from the International Bureau * See the attached detailed Office action for a list of the certified copies of the priority documents application from the International Bureau * See the attached detailed Office action for a list of the certified copies of the priority documents application from the International Bureau * See the attached detailed Office action for a list of the certified copies of the priority documents application from the International Bureau * See the attached detailed Office action for a list of the certified copies of the certified copies of the priority documents application from the International Bureau * See the attached detailed Office action for a list of the certified copies of the certified	have been received. have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No. <u>09/823,038</u> . ed in this National Stage				
Attachment(s)						
Notice of References Cited (PTO-892)	4) Interview Summary	•				
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 03/24/04, 04/01/04, 09 (10 104).	Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other: <u>Sequence ali</u>	atent Application (PTO-152)				

DETAILED ACTION

Page 2

Status of Application, Amendments, and/or Claims

1. The preliminary amendment filed on September 10, 2004 has been entered in full. Claims 1-71 have been canceled. Claims 72-91 have been added. Claims 72-91 are pending and under consideration. The declaration from Dr. J. Greg Murison has also been received.

Information Disclosure Statement

2.The information disclosure statement submitted on 03/24/2004, 04/01/2004, and 09/01/2004 have been considered by the Examiner and a signed copy has been attached to the office action.

Drawings

3. The drawings filed on 07/03/2003 are accepted by the Examiner.

Objection to the Disclosure

4. The disclosure is objected to because there is an error in reference to related patent application at page 1 of the specification. The issued U. S. Patent No. is 6,242,419, not 6,424,419. Applicant is required to correct the error.

Art Unit: 1646

Foreign Priority

5. Acknowledgment is made of applicant's claim for foreign priority based on an application PCT/NZ00/00015, filed in New Zealand on 02/18/2000, and an application PCT/NZ03/00105, filed in New Zealand on 05/27/2003. It is noted, however, that applicant has not filed a certified copy of the application PCT/NZ03/00105 as required by 35 U.S.C. 119(b).

Oath or Declaration

6. The declaration submitted on 10/19/2003 is defective because the declaration does not have the "original, first and sole/joint inventor(s) clause". It is noted that the word "first" is missing. A substitute oath or declaration in response to this action is required.

Claim Rejections—35 USC §112, 2nd paragraph

- 7. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 8. Claims 77-81 and 87-91 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 77 and 87 recite a limitation, "wherein the polypeptide has the same functional properties as SEQ ID NO: 8". It is not clear what properties are referred to,

Art Unit: 1646

rendering the claims indefinite. Claims 78-81 and 88-91 are rejected as dependent claims from either claim 77 or claim 87.

Claim Rejections—35 USC § 102(b)

9. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 10. Claims 77—81 and 87-91 are rejected under 35 U.S.C. 102(b) as being anticipated by Ruben et al. (WO 00/24756, May 4, 2000).

Ruben et al. teach a fibroblast growth factor receptor-5 (or FGFR-5), which is 99.4% identical to SEQ ID NO: 8 of the present invention (see attached sequence alignment), and FGFR-5 fusion proteins (see, e.g., line 9 of page 1). Ruben et al. also teach treating infectious disease with FGFR-5 polypeptides by increasing the immune response, particularly increasing the proliferation and differentiation of B and/or T cells (the 3rd paragraph of page 84). Ruben et al. further teach a method of treating an individual comprising administering to such an individual a pharmaceutical composition comprising FGFR-5 polypeptides and a physiological carrier, including water and saline, and an adjuvant. Furthermore, Ruben et al. teach various routes of administering the pharmaceutical composition comprising FGFR-5, including injection (see, e.g., section of Formulation and administration at pages 94-96). Accordingly, the reference of Ruben et al. meets the limitations of claims 77—81 and 87-91.

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Art Unit: 1646

Conclusion

11. Claims 72-76 and 82-86 are allowed.

Advisory Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ruixiang Li whose telephone number is (571) 272-0875. The examiner can normally be reached on Monday through Friday from 8:30 am to 5:00 pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anthony Caputa, can be reached on (571) 272-0829. The fax number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, please contact the Electronic Business Center (EBC) at the toll-free phone number 866-217-9197.

Russiang L.

Ruixiang Li, Ph.D.

Examiner

June 2, 2005

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This is the fibroblast growth factor receptor protein, FGFR-5. The FGFR-5 protein and DNA may be used in the prevention, treatment and diagnosis of diseases or conditions associated with inappropriate FGFR-5 expression and the FGFR-5 polypeptide may be used to treat disorders them) and the FGFR-5 polypeptide may be used to treat disorders associated with increased or decreased cell survival (such as cancers (e.g. leukemia, colonic cancer, testicular cancer and follicular lymphomas), autoimmune disorders (e.g. multiple sclerosis and Crohn's disease) viral infections (e.g. herpes viruses), inflammation, graft versus host disease, acute and chronic graft rejection, ischemic injuries and atherosclerosis), activation, secretion, migration, differentiation and atherosclerosis, defects of angiogenesis, immune dysfunction, endocrine dysfunction and insulin secretion disorders. Anti-FGFR-5 antibodies may also be used as diagnostic agents for detecting the presence of FGFR-5 polypeptides in samples
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